

CMKLR2 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702252
Synonyms:	Chemerin-like receptor 2; Chemerin chemokine-like receptor 2; Chemokine-like receptor 2; G-protein coupled receptor 1
Species:	Rat
Source:	E. coli Cell-free
Accession:	P46090 (M1-Q353)
Gene ID:	25457
Molecular Weight:	42.4 kDa

PROPERTIES

AA Sequence

MEVSR EMLFE	ELDNYSYALE	YYSQEPDAEE	NVYPGIVHWI
SLLLYALAFV	LGIPGNAIVI	WFMGFKWKKT	VTTLWFLNLA
IADFVFLFL	PLYISYVALS	FHWPFGRWLC	KLNSFIAQLN
MFSSVFFLTV	ISLDRYIHLI	HPGLSHPHRT	LKNSLLVVL F
VWLLASLLGG	PTLYFRDTVE	VNNRIICYNN	FQEYELTLMR
HHVLTWVKFL	FGYLLPLLTM	SSCYLCLIFK	TKKQNILISS
KHLWMLLSVV	IAFMVCWTPF	HLFSIWELSI	HHNSSFQNV L
QGGIPLSTGL	AFLNSCLNPI	LYVLISSKFKQ	ARFRASVAEV
LKRSLWEASC	SGTVSEQLRS	AETKSLSLLE	TAQ

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The CMKLR2 Protein functions as a receptor for the chemoattractant adipokine chemerin/RARRES2, implying its involvement in the regulation of inflammation and energy homeostasis. Operating primarily through the beta-arrestin

pathway, RARRES2 binding activates G proteins, induces calcium mobilization, and triggers MAPK1/MAPK3 (ERK1/2) phosphorylation. Additionally, CMKLR2 serves as a receptor for TFAFA1, facilitating TFAFA1's impact on neuronal stem-cell proliferation and differentiation by activating the ROCK/ERK and ROCK/STAT3 signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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